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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,474	03/11/2004	Ke Han	MP0416	8376
26200 7590 03/15/2007 FISH & RICHARDSON P.C. P.O BOX 1022			EXAMINER WONG, KIN C	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			2627	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONTHS		03/15/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
	10/799,474	HAN ET AL.
Office Action Summary	Examiner	Art Unit
	K. Wong	2627
The MAILING DATE of this communication a	ppears on the cover sheet w	vith the correspondence address
Period for Reply	NAME OF TO EVELOPE ALL	ACNITIVO) OF THEFTY (20) PAYO
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MO tute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 01	March 2007.	
<u></u>	his action is non-final.	
3) Since this application is in condition for allow	vance except for formal mat	tters, prosecution as to the merits is
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.I	D. 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-56</u> is/are pending in the application	on.	4
4a) Of the above claim(s) <u>49-56</u> is/are withdr		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-48</u> is/are rejected.		
7) Claim(s) is/are objected to.		·
8) Claim(s) are subject to restriction and	l/or election requirement.	
Application Papers		
,	·	
9) The specification is objected to by the Exami		h. the Evenine
10) The drawing(s) filed on is/are: a) a		•
Applicant may not request that any objection to the		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the		
	Examiner. Note the attache	d Office Action of form 1 70-102.
Priority under 35 U.S.C. § 119	• •	
12) ☐ Acknowledgment is made of a claim for foreign	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
 Certified copies of the priority docume 	ents have been received.	
2. Certified copies of the priority docume	ents have been received in A	Application No
Copies of the certified copies of the pr	iority documents have beer	received in this National Stage
application from the International Bure	eau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a li	st of the certified copies not	reçeived.
•		
·		•
Attachment(s)		
1) Notice of References Cited (PTO-892)		Summary (PTO-413)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		(s)/Mail Date Informal Patent Application
Paper No(s)/Mail Date	6) Other:	

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DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of claims (1-48) in the reply filed on 3/1/07 is acknowledged. Claims (49-56) are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected claims, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 3/1/07. The nonelected claims are required to be cancelled in the next response.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims (1-48) are rejected under 35 U.S.C. 102(e) as being anticipated by Moran et al (6738205).

Regarding claims 1, 17, 29 and 42: Moran et al discloses a system (as depicted in figure 2B of Moran et al and see associated descriptions for details) including:

means for writing a spiral servo (col. 2, lines 49-67 of Moran et al) reference track on a machine-readable medium (element 18 in figure 2B); and

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means for generating a servo track with servo information based on timing information obtained from the spiral servo reference track on the machine-readable medium (col. 7, lines 3-24 of Moran et al).

Regarding claim 43: Moran et al teaches that wherein the means for generating the servo track includes: means for decoding the encoded repeating pattern using multiple framings of signal samples of a signal from the machine-readable medium; means for correlating the signal samples that indicate pattern transitions, for the multiple framings, with valid pattern transitions as defined by the encoding; means for accumulating the transition pattern correlations for multiple framings; selecting one of the multiple framings as a correct framing for decoding based on the accumulated correlations; and means for determining a waveform polarity for the signal based on the repeating pattern and the selected correct framing (col. 13, lines 29-55 of Moran et al).

Regarding claim 44: Moran et al teaches that wherein the means for decoding includes a Viterbi means for detecting the encoded repeating pattern, using a correlation metric, with the multiple framings (col. 7, lines 30-34 of Moran et al).

Regarding claim 45: Moran et al teaches that wherein the encoded repeating pattern includes a 1/N rate coding of a repeating pattern of multiple filler symbols followed by a timing-reference symbol, resulting in a channel bit rate of N relative to a symbol rate, and the means for decoding includes means for using N different framings of the signal samples (col. 7, line 63 to col. Col. 18, line 13 and col. 20, lines 39-54 of Moran et al).

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Regarding claim 46: Moran et al teaches that wherein the means for correlating the signal samples that indicate pattern transitions includes means for correlating the signal samples that indicate transitions from a filler symbol to a timing-reference symbol with expected signal samples for transitions from the filler symbol to the timing-reference symbol, and correlating the signal samples that indicated transitions from the timing-reference symbol to the filler symbol with expected signal samples for transitions from the timing-reference symbol to the filler symbol (col. 21, lines 12-28 of Moran et al).

Regarding claim 47: Moran et al teaches that wherein the means for selecting one of the multiple framings as a correct framing includes programmable means for selecting one of the multiple framings (col. 24, line 60 to col. 25, line 59 where Moran et al describes the means for programming the selection of the framings in a multiple frames).

Regarding claim 48: Moran et al teaches that wherein the means for determining the waveform polarity includes: means for determining a signal-indicated framing based on a generally sinusoidal portion of the signal; and means for identifying a reversed polarity if the signal-indicated framing is different than the correct framing selected based on the accumulated correlations (col. 23, lines 27-62 of Moran et al).

Regarding claims 2-16: the method claims (2-16) are met when the apparatus of Moran et al is in use.

Regarding claims 17-28: claims (17-28) have limitations similar to those treated in the above rejection(s), and are met by the references as discussed above. Claim 17

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however also recites the following limitations of servo writer that which is discussed in claim 42 and col. 2, lines 49-67 of Moran et al.

Regarding claim 29-41: claims (29-41) have limitations similar to those treated in the above rejection(s), and are met by the references as discussed above. Claim 29 however also recites the following limitations of servo writer that which is discussed in claim 42 and col. 2, lines 49-67 of Moran et al.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kanota et al (5089917) and Kiriaki (61669429) are cited for signal processing. Cloke (6977789) and Swearingen et al (5668679) are cited for spiral servo writing.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to K. Wong whose telephone number is (571) 272-7566.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, H. Nguyen can be reached on (571) 272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

kw

14 Mar 07

K. WONG PRIMARY EXAMINER